

CLAIM AMENDMENTS

In The Claims:

Cancel claim 2 and add new claim 10:

Claim 1 (original)

1. A snap action switch which includes upper and lower nonsnap contacts, and which includes a snap action actuator having an actuation location and a tripping leg and a middle snap contact on the tripping leg, said middle contact lying between said upper and lower contacts and said middle contact being moveable between a down position against said lower contact and an up position against said upper contact, said actuator being constructed to snap said middle contact from said down position to said up position when said actuation location is depressed beyond a first snap height and to snap said middle contact from said up position to said down position when said actuation location is allowed to rise beyond a second snap height, comprising:

means for varying the height of one of said nonsnap contacts, to thereby vary one of said snap heights at which said middle contact snaps.

Claim 2 (canceled).

Claim 3 (canceled).

Claim 4 (previously presented)

4. A snap action switch comprising:

a frame;

an operator that is moveably mounted in said frame and that has an operator triggering end;

a spring that is mounted in said frame and that has a frame-abutting end coupled to said frame and an operator-abutting end coupled to said operator and

urging said operator end upwardly;

upper and lower unsnap contacts mounted on said frame;

10 a snap action actuator having an actuation location lying immediately below  
said operator end, to be moved downward by said operator end, said actuator  
having a trigger leg with a middle snap contact thereon lying between said upper  
and lower contacts and moveable between a down position against said lower  
contact and an up position against said upper contact, said actuator constructed  
15 to snap said middle contact from said down position to said up position when said  
actuation location is moved down beyond a first snap height, and to snap said  
middle contact from said up position to said down position when said actuation  
location rises beyond a second snap height, comprising:

20 means for adjusting the position of said upper contact to position said upper  
contact at higher and lower positions relative to said lower contact, to thereby  
change the height at which said middle contact snaps down.

Claim 5 (previously presented)

5. The switch described in claim 4 wherein:

5 said means for adjusting includes a beam with a first beam location fixed  
to said frame, a second beam location that is spaced from said first locations with  
said upper contact being fixed to said beam at said beam second location, and a  
beam third location that is spaced from said beam first location, said means for  
fixing also including a screw that can be tightened to press down said beam third  
location.

Claim 6 (previously presented)

6. The switch described in claim 4 wherein:

5 said frame has a fluid inlet, and including a membrane with a periphery  
fixed to said frame, and with a first membrane side exposed to said fluid and an  
opposite membrane side that applies force to said operator to urge said operator  
downwardly against said spring force;

said snap action actuator snaps said middle contact down against said lower contact when said operator moves upward beyond an upper actuation height (112), and said means for adjusting adjusts the height of the said upper contact to adjust said upper actuation height.

Claim 7 (canceled).

Claim 8 (canceled).

Claim 9 (original)

9. A method for use with a snap action switch arrangement which includes a frame, an operator that is moveably mounted in the frame, a spring coupled to the operator and frame and biasing the operator in a downward direction, upper and lower unsnap contacts mounted on said frame, and a snap action actuator having an actuation location lying immediately below said operator to be moved downward by said operator, said actuator having a trigger leg with a middle snap contact thereon lying between said upper and lower unsnap contacts and moveable between a down position against said lower contact and an up position against said upper contact, said actuator constructed to snap said middle contact from said down position to said up position when said actuation location is moved down beyond a first snap height, and to snap said middle contact from said up position to said down position when said actuation location rises beyond a second snap height, the method being useful to adjust said second snap height at which said middle contact snaps to said down position, comprising:

adjusting the height of said upper unsnap contact relative to said snap action actuator.

Claim 10 (new)

10. A snap action switch which includes upper and lower nonsnap contacts, and which includes a snap action actuator having an actuation location

20 and a tripping leg and a middle snap contact on the tripping leg, said middle  
contact lying between said upper and lower contacts and said middle contact  
being moveable between a down position against said lower contact and an up  
position against said upper contact, said actuator being constructed to snap said  
middle contact from said down position to said up position when said actuation  
25 location is depressed beyond a first snap height and to snap said middle contact  
from said up position to said down position when said actuation location is allowed  
to rise beyond a second snap height, comprising:

30 a frame, said actuator having a resilient beam mounted on said frame to  
locate said actuator location in horizontal directions while allowing said actuation  
location to move vertically;

a cantilevered beam having a first beam end fixed to said frame and an  
opposite second end, said upper contact being mounted on said cantilevered  
beam between said ends; and

35 a screw that is threadably connected to said frame and that engages said  
beam second end to vary the height of said upper contact and thereby vary a snap  
height at which said middle contact snaps down.